

Subject: glowbugs V1 #137

glowbugs

Wednesday, October 15 1997

Volume 01 : Number 137

Date: Tue, 14 Oct 1997 05:13:36 +0000

From: Sandy W5TVW <ebjr@worldnet.att.net>

Subject: Hartley oscillators

Hello Glow-buggers,

I am getting very close to start cutting metal here to start up the construction of the BIG Hartley oscillator.

If you have the "1934 Official Short Wave Radio Manual" reprint by Lindsey, there is a Hartley ECO using a single 860 tetrode. I plan to build it using the same mechanical layout and the same circuit. Deviations will be the use of probably 1/4" masonite with heavy-duty aluminium foil contact cemented to the inside surface for the front panel. I have a sheet of it

that has a nice ivory finish on one side and plain on the other (which will be the inside). Will use aluminium angle and some salvaged aluminium sheet for the shield partitions.

Instead of winding the coils, I will be using two Johnson edgewise wound coils for the output and antenna tanks. I also have the clips to match. One variation I'll add is an arrangement using a BC-375 tuning unit switch to either run the antenna tank in "series" or "parallel".

When you use an end fed wire this type tank works pretty well. The antenna coil will have to be mounted so that it's coupling can be varied in relationship to the plate tank. One has to use quite loose coupling, as if it is too tight, the two tanks will peak at two frequencies which will reduce efficiency and harmonic reduction. Since this design is "ECO" (electron coupled oscillator), the plate/antenna tanks should have minimum effect on the frequency the oscillator operates on, unlike the '10 design

I'm presently using.

In the '10 design, if one overcouples the two tanks, you will hop from one frequency to the other and the note will sometimes be rough. The antenna tank is VERY LOOSELY coupled to the main tank!

I'll be giving progress reports on the 860 ECO Hartley's construction and

perhaps in mid-winter, I'll have it ready to go. I will be powering it with a 1500

volt supply and hopefully draw about 85-90 ma. I'm guessing the output will be around 25-35 watts if I'm lucky. I could go up to about 2000-2500 volts if I had a bigger supply.

I have NO idea what it will sound like, but I guess we'll all find out before

it's overwith! The 860 is a very curious looking and interesting tube. It has an actual (physically) screen grid in it! The screen looks like it is made from window screen wire mesh rather than a spiral wound or a "cage" as on later tubes! If one REALLY wanted to go overboard with this design, one could use the 860's big brother, the 861 tetrode. The 861 is capable of a kilowatt input and has a 400 watt plate dissipation rating! Wouldn't THAT be a thumper!

Stay tuned.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

****Looking for a 6 meter Gonset Communicator III ****
****860 Hartley 'ECO' under construction******

Date: Tue, 14 Oct 1997 05:13:41 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: "BA" net activity

Winter is definitely on the way! Heard/worked tonight:

WA5OES, Art.....NA4G...Bob.....VE3FGU, Mike.....
K2UXE, Mike.....K1VVC, Jon.....AC5AM, Bob.....K4OAH, ???
Plus a couple of "weakies" the QRN from the passing frontal system

covered up.

All this on 3579.5 or so. Everyone with a device to emit RF is welcome, "vacuum tube" rigs preferred.....but 'sand state' stuff is OK! Last winter we had nights where there were 7-8 stations in a big roundtable. If we are sending too fast, complain and we'll slow down...DON'T be bashful! It's no fun when you can't keep up with the conversation, and this is all for fun anyway! We can't all be "speed merchants", so do ask the group to QRS!

Looking forward to hearing more activity this winter as the weather cools!
73 and ZUT,

E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, repaired, traded and used!"
417 Ridgewood Drive
Metairie, LA., 70001
****Looking for a 6 meter Gonset Communicator III ****
****860 Hartley 'ECO' under construction******

Date: Tue, 14 Oct 1997 09:06:30 -0400
From: "Brian Carling" <bry@mnsinc.com>
Subject: Re: push pull 2 x 807 xtal tx.

On 12 Oct 97 at 9:06, Ken wrote:

> > > My brother found a copy of the 1938 RCA air cooled transmitting tube
> > > manual at the flea market. In the 'circuits' section is a nifty
> > > 2 x 807 push pull xtal tx. 30W. It's still a cheap tube.
> > > Now to scare up a big xtal.
> > > -bob
> >
> > He he - yea, or to CRACK a small one!
>
> Not necessarily. Adjust feed-back to keep crystal current low.
>
> Ken W7EKB

Yes - tweak for minnum destruction...
(GRIN!!)

*** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com *

*** ICQ: 3910641 ***
** http://www.mnsinc.com/bry/ *

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,
Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

Date: Tue, 14 Oct 1997 09:06:29 -0400
From: "Brian Carling" <bry@mnsinc.com>
Subject: Re: push pull 2 x 807 xtal tx.

Bob et alia, does anyone on here know of a LIST or document
describing the various crystal holders that were made?

Bry, AF4K

On 13 Oct 97 at 17:13, rdkeys@csemail.cropsoci.ncsu.e wrote:

> > That PP 807 circuit sure sounds interesting. If I sent you an
> > SASE could you make a copy of the circuit for me? Don't have accses
> > to the RCA manual you referenced.
> >
> > I have an old WW 2 crystal that I'm sure would handle the current
> > with no problem. I think the xtal was used in the BC 610 transmitter.
> >
> > I look forward to working you on 80, with some of my vintage radios.
> >
> > VY 73 Tony, W2GUM
>
> It must have been one of the other Bob's that brought it up. I don't
> have that manual, but, I am sure whomever posted it originally would
> be happy to get in touch with you about it. I have one older RCA tube
> manual, and I will check that tonight, just in case that circuit was
> carried into the 50's books.
>
> The FT-171 xtal would do very well for such a rig.
>
> I been trying to drum up some QTC on 3579, but either my ether burns
> itself into the null antenna, or the skip is out somewhere. I rehung
> the antenna yesterday to get better E/W propagation, so maybe it will
> pick up. I look forward to working all the Glowbuggeites this season.
>
> Bob/NA4G
>
>
>

*** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com *
*** ICQ: 3910641 ***
** http://www.mnsinc.com/bry/ *

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,
Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

Date: Tue, 14 Oct 1997 11:05:57 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
Subject: need schematic

>To:gb
>From: leeboo@ct.net (Leon Wiltsey)
>Subject: need schematic
>Cc: ba
>Bcc:
>X-Attachments:
>
>Hi Gang
>
>
>Bought a PRECISION APPARUTAS CO. SIG GEN
> MODEL E-200 FOR 10 BUCKS AND IT WORKS.
>Now does anybody have a book or even the schematic for it.
>Will be glad to pay any costs for the book ect.Pse email
>me if you csu supply the above.
>
Not having one can anybody tell me where I might find one.

Thank the good LORD for all that you have!!!

67yr old semi disabled senior trying to get code speed to 13wpm
(stroke got my eyesight, balance and coordination) SO ONLY BA'S NO SOLID STATE

Leon (lee) Wiltsey 4600 Lake Haven blvd Sebring fl. 33872 KF4RCL TECK+

Thank the good LORD for all that you have!!!

67yr old semi disabled senior trying to get code speed to 13wpm
(stroke got my eyesight, balance and coordination) SO ONLY BA'S NO SOLID STATE

Leon (lee) Wiltsey 4600 Lake Haven blvd Sebring fl. 33872 KF4RCL TECK+

Date: Tue, 14 Oct 1997 11:11:39 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
Subject: need plug in coils

Hi Gang

Anybody have a MEL- 20 plug in coil by barker and williamson or the 5 pin
socket
they lug in to? Will pay any reasonable price for either items. Pse Email
me.

Thank the good LORD for all that you have!!!

67yr old semi disabled senior trying to get code speed to 13wpm
(stroke got my eyesight, balance and coordination) SO ONLY BA'S NO SOLID STATE

Leon (lee) Wiltsey 4600 Lake Haven blvd Sebring fl. 33872 KF4RCL TECK+

Date: Tue, 14 Oct 1997 11:21:43 -0400 (EDT)

From: leeb00@ct.net (Leon Wiltsey)

Subject: need add Miike Bales

Hi Mike

Guess what A slightly crushed package of 3 tubes got here
on Sat(i think) I was out of town and neighbor had package
when I returned Somehow the add got messed up, but
po finally figured out who they were add to.

Two of the 3 tubes in fb shape, One of the foriegn ones and the
old rca. Both tested ok and worked in an old audio amp I have.
So am sending you 11 bucks for them. have trashed all our original
emails and need you home add so can send check. Sorry gang for the bandwidth.
.

Thank the good LORD for all that you have!!!

67yr old semi disabled senior trying to get code speed to 13wpm
(stroke got my eyesight, balance and coordination) SO ONLY BA'S NO SOLID STATE

Leon (lee) Wiltsey 4600 Lake Haven blvd Sebring fl. 33872 KF4RCL TECK+

Date: Tue, 14 Oct 1997 10:55:24 -0400 (EDT)

From: rdkeys@csemail.cropsci.ncsu.edu

Subject: Re: push pull 2 x 807 xtal tx.

> >I been trying to drum up some QTC on 3579, but either my ether burns
> >itself into the null antenna, or the skip is out somewhere. I rehung
> >the antenna yesterday to get better E/W propagation, so maybe it will
> >pick up. I look forward to working all the Glowbuggeites this season.
> >

> >Bob/NA4G

>
> Bob, I have a 1.75 watt (117L7/M7) single tube xtal controlled xmtr
> on which I have a 3579 xtal and can use but it sure does chirp. If
> you were to address the time of operation (0000Z-0200Z or some such
> time) you might be able to drum up some interest if others knew that
> that was a good time for all QRPers to be operating. Whatchathink?

>
> Regards,
> Rod, N5HV
> w5hvv@aeneas.net

A pipsqueeker will be fun, but possibly not as easy to hear as some.
A little chirp never bothered anyone worth his salt. Go for it!

The usual practice on the Glowbugging QRG is to run at H+0 (i.e., on any
given hour) and someone calls a round, and everyone else chimes in, to set
the round table. He whom is there firstest with the mostest usually calls

the round. Tradition usually sets the QTR at 9 pm or 11pm EST, between the nets that abound just underneath the QRG. But, usually anytime after dark is fine. I have had success at working locals within about 350 miles during the day. I usually keep something on in the background and if I hear anyone try to chime in. Sandy/W5TVW is pretty good about being around with a biggie iron or two, and can usually always be heard QSA5 around my shack. Thus, you might check around at 0000/0100/0200/0300/0400 at your convenience, and see if anyone is around. In the deep winter, folks often are around at 0500 and 0600 too, and once in a wee while as late as 0700. A little presence or signature in your note is fine Rod, and helps the OT's know who you are. A glowbugge is not up to snuff unless it has a character and timbre to its note, and the chops aboard for the watch has some signature to his fist. That makes it pleasant, and easy for all aboard to identify with each other.

The Traditional Glowwebuggeite Calling Sequence is:

CQ BA CQ BA DE <yourcall> <yourcall> K

by the lead station, and then that station will listen/acknowledge any checkins, in sequence or as a group.

If a really big group starts up, the biggie iron station may assume some sort of control and pass the dits around a list as a VERY informal roundtable type run. In years past, we have had as many as a dozen or more checkins with everything from Hartleys and Regens to Johnson KW's. If you are a QRP fellow, then you might want to listen periodically for the lead station to pause for further checkins, then send a starting signal to draw attention to you and then your call something like

KA DE <yourcall> K

or

KA DE <yourcall> <yourcall> K

or

KA <lead station call> DE <yourcall> K

If that does not work, then hold the key down for several 1 second dahs before you DE <yourcall>. That would only rarely need to be done, and usually only with very weak stations. The weaker stations usually do better on the later hours, when the nets have gone to beddiebye.

Biggie iron folks can usually get aboard with something like a

DE

or

DE <yourcall> K

or

<lead station call> DE <yourcall> K

The traditional biggie stations are W5TVW, WS4S, NA4G, and a few others. When my local BA op AD4YH comes on with his kw DX40, a single dit is all that that is usually required to let us know he is aboard..... but usually, as the minimum, a good lead station should pick you up with just a DE or a DE <yourcall>. There is no reason to waste dits among friends signing on, if a short form call, will do.

Last nite there were several stations aboard, and Sandy/W5TVW and Art WA5OES were QSA5 here on the east coast. The band is picking up folks! If you want to hear a lusty signal, listen for WS4S and that WWII T4 rig or W5TVW with his heavyweight Johnson iron. When Sandy gets that 860 Hartley up, that should be a fine bottleburner, too.

All hands note that speed is not important on the Glowbugge QRG.
There are those aboard that can set yer tin cans afire, if you want,
but most are quite comfy to truck along at a modest QRQ15 or less, as
required by the conditions, the slowest ops, etc. Don't let yer QRQ
bother you --- putting it to practice emitting dits and dahs is more
important. My ol' glass elbow is getting so rusty these days, even I
need the practice!

See ya on the bands!

73/ZUT DE NA4G/Bob UP

Date: Tue, 14 Oct 1997 09:53:55 -0500
From: ac5am@juno.com (Robert L Stolzle)
Subject: Re: "BA" net activity

Hello Glowbuggers,

I will try to have at least one QSO with someone on 3579.5 after dark
here about
0130Z or 0200Z. So listen for my CQ BA. (unless there is a qso going
already)
Sure would be great to have some "big ole roundtable QSO's" going on this
winter.
I always try to match other stns cw speed but QRS will always work.

Been pretty busy lately with honey-do's. Also will start building on my
new ham
shack in a couple weeks. When that is complete then I will be able to
have some
"real" boatanchors.. har, har.... Will be thinking about a good tube rcvr
first.

Hope to chat with you all on the bands. Had a good chat with Jon, K1VVC,
last night.

73, Bob AC5AM (ex. K5QYY, vintage 1958...)

Date: Tue, 14 Oct 1997 09:26:02 -0500
From: Steve Linscott <linscot@is.rice.edu>
Subject: The BIG Regen (long)

At Bob's request, here's the info on the 833A regen:

May 2, 1995

Well, it's Bob's fault! (NA4G, Bob Keys). He has written a lot about
Hartley oscillators and the venerable 833A, and mentioned it in connection
with a regen receiver. I finished wiring one last night. The goal was to
build it entirely from the junk box, buying nothing. Chassis, panel, dials,
833A socket, etc. all came from my "goodie" box. Took two evenings for the
mechanical work, and two hours to wire it.

The circuit was from the 1940 ARRL HB. They used a type 30 tube with 30
volts on the plate. I planned to use a 48 volt regulated supply for the

plate. I substituted a 2.2 meg for their 1 meg grid leak, otherwise followed the circuit exactly. I found an old UTC xfmr for audio output -- didn't want to run 833A plate voltage through my headphones! When I fired it up, I heard NOTHING, wouldn't hiss or hum or indicate that it was on at all. Tried five different 833A's, same results. I finally decided that I needed more juice on the plate, so I connected a variable HV supply. It takes about 130 volts on the plate for the 833A to oscillate in this circuit. I loosely coupled an antenna, and heard signals!

The coil stock and capacitor that I used tunes from 3.775 to around 7 mc., and I ended up listening to Radio Free America on 5.050 mc. I tried some SSB on 75, but it was hard to tune. There is not a lot of volume out of this beast, except on the strong SW broadcast stations. (However, it's the "hottest" one tube receiver around, with it's 100 watt "light bulb" built in!) Now that I can say I have listened to SW on an 833A, it's time to make it into a nice Hartley, which was the ultimate goal anyway! Bob, I'll pick a circuit out of your book, and let you know how it turns out.

- Steve -

May 17,1995

Bob,

As I mentioned in my BA post, I planned to convert the HB 833A regen rcvr into a Hartley xmtr. However, I have been having so much fun with it, I will probably have to build a separate Hartley. I removed a few turns off the coil, and it now tunes 4-7.5 mcs. I tried all my 833's and three of them work well in receive mode. I ended up with 130 volts to the 50K regen pot, in order to insure oscillation across all the tuning range, so will try a couple of 67 1/2 volt batteries to get rid of the slight hum from my PS. (It only draws 2.6 ma.) This should make CW and SSB sound better, too. If I ever get around to photographing it, I'll send you a picture.

73 de W5EGP - Steve -

May 18,1995

Great!

If you need 130vdc on the plate to get oscillation, you may need more coupling in the tickler department. On very low gain tubes and on transmitting tubes, the tickler control needs to be a little more than expected for the usual '01A or such. It should oscillate with proper feedback on as little as 12vdc on the plate. You might try a higher value of grid leak, maybe 10 megs or so.

Bob

June 12,1995

Bob -

I got back from vacation, and have played with the receiver some more. I tried grid leaks from 1 meg to 15 megs, and the original 2 meg that I started with seems to work as good as any. The coil is 16 turns of B&W stock, with an 8 turn tickler, so I think I have plenty of feed back. The minimum plate volts to oscillate is about 85-87, so a 90 volt battery should work OK. I'm using a variable supply now. I replaced the disk bypass caps on the B+ line with C-D micas, that have a more "period" look. I can only work on it at night, because I test after every change, and daytime reception ain't too good!

I am wondering if lowering the filament voltage would make a difference on plate voltage required to oscillate. I am running 10 volts, and have an aversion to running tubes at out-of-spec filament voltage.

The circuit in the handbook had a 50K pot in series with the audio xfmr, bypassed with a .1 mfd cap. I tried wiring the pot as a voltage divider across the B+, and got better regeneration control. Of course, I kept the bypass.

I am getting decent volume from the audio xfmr into 600 ohm 'phones, but sometimes cheat and use an small SS audio amp with it. It has been a lot of fun, and certainly will draw attention when I take it to the Houston Vintage Radio Association meeting tomorrow!

I appreciate your suggestions for making it oscillate with lower plate voltage. Can you think of any more?

tnx es 73 de W5EGP

- Steve -

July 25,1995

I need the collective wisdom of the regen experts! I rewired my 833-A regen receiver, and eliminated the pot to control plate voltage. Now regeneration is controlled by a capacitor to ground on the tickler. I had to raise the plate voltage from 90 to 250, and pad the regen variable cap with a 100 pf SM (now 120-300 pf) to get regeneration across the 4-7.4 Mc. tuning range. The grid coil is 16 turns, and the tickler is 8 turns, so I should have enough feedback. The other problem is that the set appears to be "motorboating" at the point of regeneration, and varies from pop...pop...pop to a steady growl as the regeneration is increased. Past the critical point, the growling stops, but of course the sensitivity is down. AM is fine, but CW is almost impossible. It did this with the B+ regen control circuit, too.

I have run the grid leak from 1 meg to 15 megs, with no change to the behaviour. The plate lead runs through the primary of an audio transformer, and the secondary goes to 600 ohm 'phones or a small outboard audio amp. The B+ side of the primary is bypassed with a 1 mfd cap. The noise doesn't sound like the "fringe howl" that I had on my first regen. I cured that one with a 100K resistor across the the xfmr secondary.

When set just before oscillation, the rcvr pulls in SWBC stations quite well, and is quite a conversation piece!

Any suggestions will be appreciated. 73

- Steve -

July 25,1995

> I need the collective wisdom of the regen experts! I rewired my
>833-A regen receiver,

Steve,

I haven't been paying full attention, perhaps, but: Are you using a THREE HUNDRED WATT plate dissipation transmitting tube as a regen receiver? My book shows one hundred watts of filament power alone. No wonder it's a "conversation piece".

If this is really what you've done, I have a proposal: we write up your

design and experience for our antique radio club newsletter. Maybe I could make one similar to yours and take some photos of it (my other hobby is photography.) The closest I could come is an 803, unless that 14-inch long transmitting tube I have at my Mother's house would work.

- -- Roy --

Roy Morgan / Tech A-266 / NIST / Gaithersburg MD 20899
(National Institute of Standards and Technology, formerly NBS)
301-975-3254 Fax: 301-948-6213 Internet: morgan@speckle.ncsl.nist.gov
- ---

July 25,1995

Ref: "motorboating" 833A regenerative receiver.....
Raising B+ from 90vdc to 250vdc is quite a change; was the circuit designed to run at 90? It's difficult to diagnose something like this without looking at it, but with the tube running at that high B+ it may be breaking into oscillation just due to internal capacitance. There is more than one way to achieve regeneration, and not all the ways are always deliberate. Another thing to consider (maybe a long shot) might be your power supply regulation... how steady is your B+? What kind of filter do you have?

73, John Martin

July 25,1995

>
> I need the collective wisdom of the regen experts! I rewired my
> 833-A regen receiver, and eliminated the pot to control plate voltage. Now
> regeneration is controlled by a capacitor to ground on the tickler. I had
> to raise the plate voltage from 90 to 250, and pad the regen variable cap
> with a 100 pf SM (now 120-300 pf) to get regeneration across the 4-7.4 Mc.

Use a broadcast dual 365 pf capacitor for throttle control.

Change the grid capacitor to be 250pf, if it is less than that.

> tuning range. The grid coil is 16 turns, and the tickler is 8 turns, so I
> should have enough feedback. The other problem is that the set appears to
> be "motorboating" at the point of regeneration, and varies from
> pop...pop...pop to a steady growl as the regeneration is increased. Past
> the critical point, the growling stops, but of course the sensitivity is
> down. AM is fine, but CW is almost impossible. It did this with the B+
> regen control circuit, too.

> I have run the grid leak from 1 meg to 15 megs, with no change to
> the behaviour. The plate lead runs through the primary of an audio
> transformer, and the secondary goes to 600 ohm 'phones or a small outboard
> audio amp. The B+ side of the primary is bypassed with a 1 mfd cap. The

Put a 0.01 uf bypass followed by a 2.5mh choke followed by 1-10 mf cap followed by a 10 henry plate filter reactor in the plate line from the bottom end of the plate transformer to the voltage feed. You need to fully bypass rf and audio to prevent audio motorboating.

You can just get rid of the audio transformer, and use impedance coupling with a 10 henry plate choke and maybe a 1-10mf coupling capacitor.

Fringe howl on mine are caused by insufficient feedback, too high a value of grid leak, and insufficient plate voltage. Some tubes can handle the high values of grid leak (my '01A's work fine with NO grid leak [just surface leakage across the circuit], as do the 76's and the 27's --- other tubes like a lesser value of grid leak [50k to 1 meg or so]).

> noise doesn't sound like the "fringe howl" that I had on my first regen.
> I cured that one with a 100K resistor across the the xfmr secondary.

Try dropping the secondary grid resistor down to 50 or 20 or maybe even 10K for better swamping. Or just use impedance coupling.

73/Bob/NA4G

July 25,1995

Ahhh, I wondered why you were using a transmitting tube. But what the heck, why not if it's fun? A few other suggestions... you might tinker with your grid leak, also try various loads across the secondary of your audio transformer (effects coupled into the primary, of course), and making sure the B+ line is very well bypassed.

73, John Martin

August 1,1995

I think I have finally tamed the beast! I went back to controlling regeneration by varying the plate voltage. Added another RF choke and capacitor in the B+ line. Raised the grid cap from 100 pf to 200pf, and left the grid leak at 5 meg. This got rid of the motorboating, but left me with fringe howl. Tried different resistors across the audio xfmr secondary, but ended up putting a 15K across the primary! Now, regeneration is much smoother, CW copy is possible, and plate voltage is back to 90. Thanks to all for the many suggestions on things to try.

Just like the original project, this review is Bob's fault! It was quite an adventure, and was a "group" project with much help from the net. Someday I'll scan some pictures of the beast and put them on my web page.

73 de W5EGP

- - Steve -

```
*****
*      Steve Linscott      Divisional Consultant      Natural Sciences
*
*      Rice University      6100 South Main Street      Houston, Texas 77005-1892
*
*      Phone: (713) 527-4985      FAX: (713) 527-6099      Email: linscot@rice.edu      *
*****
```

Date: Tue, 14 Oct 97 11:13:55 PDT
From: "C-W Crystals" <cwxtal@u-n-i.net>
Subject: Need crystal holders

Hi Gang,
I need some of th old round style crystal holders like Bliley made in the 1940"s. These are for a "special Request" type order.
The holders were 1 3/8" diameter and 1/2 to 5/8 inch thick with the pins coming out the flat side. Anyone have some of these they want to get rid of? I need at least six or eight.
73 John

Date: Tue, 14 Oct 1997 15:00:30 -0400 (EDT)
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: Quinby's 1928 Regen Set Plans on glowbugs site now

In keeping with our October month of the regen concept, I finished a reprint of Porter Quinby's 1928 QST article on the ``tube base receiver''. This is a classic middle 20's regen receiver that used tube bases for coil forms. All the scoop is there for what I consider to be the a classic regen receiver design that everyone should study. Alas, I forgot my password to the site, so I had to put it into the INCOMING directory, until I get it set up right. This set uses a detector and two-step audio, throttle and voltage regen control, and tube base coil forms --- everything one needs for a good and practical early type regen design. I will try to work up one more for the classic 30's designs and then you will have something to choose at. The output is in postscript, gzipped for storage in the Glowbugs Archives at:

piobaire.mines.uidaho.edu/pub/Glowbugs/INCOMING/quinby28.*

There is a companion middle 20's Hartley oscillator article by R.P. Turner, that would make a good 20's station for anyone with that mindset. It is at

piobaire.mines.uidaho.edu/pub/Glowbugs/Articles/rpturner.*

Have fun, study well, build with fervor, and sees ye on the bands!

73/ZUT DE NA4G/Bob UP

p.s. After reading Steve Linscott's 833 regen posts.... hows about a Quinby 833 model..... News at 11..... just thinking.....(:+)}.....

Date: Tue, 14 Oct 1997 12:50:06 -0700
From: "Frank A. West" <ke6vhm@earthlink.net>
Subject: Type 30 tubes Help?

Greetings group. Someone posted some type 30 tubes for sale a few days ago, and I lost the message. Could the person that posted that message do it again please. HELP I need 4 pls. Thanks in advance.

TTFN 73 Frank KE6VHM
Grid Square DM13
CW Forever

Date: Tue, 14 Oct 1997 17:27:01 -0400
From: "Brian Carling" <bry@mnsinc.com>
Subject: Re: push pull 2 x 807 xtal tx.

On 14 Oct 97 at 10:55, rdkeys@csemail.cropsci.ncsu.e wrote:

> > >I been trying to drum up some QTC on 3579, but either my ether burns
> > >itself into the null antenna, or the skip is out somewhere. I rehung
> > >the antenna yesterday to get better E/W propagation, so maybe it will
> > >pick up. I look forward to working all the Glowbuggeites this season.
> > >
> > >Bob/NA4G
> > _____
> > Bob, I have a 1.75 watt (117L7/M7) single tube xtal controlled xmtr
> > on which I have a 3579 xtal and can use but it sure does chirp. If
> > you were to address the time of operation (0000Z-0200Z or some such
> > time) you might be able to drum up some interest if others knew that
> > that was a good time for all QRPers to be operating. Whatchathink?
> > >
> > Regards,
> > Rod, N5HV
> > w5hvv@aeneas.net

Bob & Ron - that CHIRPING... it kind of gives a smaller GB rig an
AUTHENTIC sound!

Reminds me of the days when y ou could tune from 7100-7150 and hear
QUITE A FEW chirping or T-7 signals.

Remember those GREAT sounding sigs?

Chowpy-chowpit-chow-chow-pi-chow!!!!
CQ

I remember it fondly and nowadays - all those RST 599 perfect signals
just lack the CHARACTER of the old rigs!

You could recognize SOME guys on CW by their "signature buzz"
or the SLOW YOOP that another one might have, he he he he he!

Heck with the purists!

(grin!)

Bry, AF4K

*** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com *
*** ICQ: 3910641 ***
** http://www.mnsinc.com/bry/ *

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,
Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

Date: Tue, 14 Oct 1997 17:27:02 -0400
From: "Brian Carling" <bry@mnsinc.com>
Subject: Re: TUBE POWER SUPPLY

Switching mode power supplies CAN tend to put garbage into your receiver in some cases!

Bry

On 13 Oct 97 at 15:57, Mark wrote:

>
> In the latest issue of Nuts and Volts magazine, there is a
> circuit in the electronics Q&A for an (solid state) regulated vacuum
> tube power supply, variable from about 120 to 400 VDC at about 200 ma.
> It uses a LM494 chip, common in PC power supplies, a pair of IRF510s,
> and a re-wound toroidal transformer (salvaged from a defunct PC supply).
> Anyone on this list have any experience with switching mode power supplies
> for glowbug service ? It looked like a handy circuit for experimental
> glowbug designs/breadboarding.

>
> Mark Dittmar
> ABOCW

>

*** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com *
*** ICQ: 3910641 ***
** http://www.mnsinc.com/bry/ *

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,
Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

Date: Tue, 14 Oct 1997 16:57:09 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: "Net" on 80/40...

Well, it looks like I have found the source of the buzzing noise I have been plagued with for the last several months: the street light just across from our house is a TREMENDOUS noise maker.

The power company was out today, and I just happened to be home for a late lunch so I met the crew and we tested it out. Looks like they are going to have to replace the whole lamp assembly. More Thursday.

Ken W7EKB

Date: Tue, 14 Oct 1997 22:46:06 +0100
From: BOB DUCKWORTH <bob@atl.org>
Subject: Re: TUBE POWER SUPPLY

Brian Carling wrote:

>

> Switching mode power supplies CAN tend to put garbage into your
> receiver in some cases!

>

> Bry

I was wondering why my radio had suddenly become so attractive to
Possums (O'Possums to you fools that won't eat 'em)

- -bob

wb4mnf

Date: Wed, 15 Oct 1997 06:50:00 -0400

From: "Brian Carling" <bry@mnsinc.com>

Subject: Re: TUBE POWER SUPPLY

On 14 Oct 97 at 22:46, BOB wrote:

> Brian Carling wrote:

> >

> > Switching mode power supplies CAN tend to put garbage into your
> > receiver in some cases!

> >

> > Bry

>

> I was wondering why my radio had suddenly become so attractive to
> Possums (O'Possums to you fools that won't eat 'em)

>

> -bob

> wb4mnf

No Bob, O'Possums are the IRISH ones!

*** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA *

** E-mail to: bry@mnsinc.com *

*** ICQ: 3910641 ***

** <http://www.mnsinc.com/bry/> *

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,

Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

End of glowbugs V1 #137
